

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-8. (Cancelled)

9. (Previously Presented) A device for detecting a leak in a tire of a motor vehicle wheel, comprising:

means for measuring a pressure of gas contained in the tire;

means for collecting pressure measurement data;

means for calculating a change in pressure between two instants of measurement data collection; and

means for clocking the collection of the pressure measurement data and computing the intervals separating the clocked instants of collection to deduct therefrom the corresponding pressure deviations between the clocked instants of collection.

10. (Previously Presented) A device according to claim 9, further including means for calculating clocking differences between successive measurement data.

11. (Previously Presented) A device according to claim 10, wherein the data collection means is configured to transmit a signal for interrupting the clocking means in order to record in a memory the instant of receipt of the measurement data.

12. (Previously Presented) A device according to claim 9, further including means for measuring the temperature of the gas contained in the tire, wherein the data collection

means is further configured to collect the temperature measurement and the calculating means is further configured to temperature-compensate the pressure measurement.

13. (Previously Presented) A device according to claim 12, in which the calculating means is configured to establish the equation:

$$P_c = (P_m + 1.014) \frac{T_{ref}}{T_m} - 1.014$$

in which P_c and P_m are relative pressures and the temperatures T_{ref} and T_m are expressed in Kelvin.

14. (Previously Presented) A device according to claim 12, further including means for transmitting an alarm signal based on the compensated pressure.

15-25. (Cancelled)